## **LISTING OF CLAIMS:**

- 1. (Original) Biodegradable, phase separated multiblock copolymer, comprising segments of a soft biodegradable prepolymer (A) having a Tg lower than 37°C; and segments of a hard biodegradable prepolymer (B) having a Tm of 40-100°C, the segments being linked by a multifunctional chain-extender.
- 2. (Original) Copolymer according to claim 1, wherein said chain-extender is an aliphatic chain-extender.
- 3. (Previously Presented) Copolymer according to claim 1, wherein prepolymer (A) comprises ester and/or carbonate groups, optionally in combination with polyethers.
- 4. (Previously Presented) Copolymer according to claim 1, wherein a polyether is present as an additional prepolymer.
- 5. (Previously Presented) Copolymer according to claim 2, wherein pre-polymer (A) comprises reaction products of ester forming monomers selected from diols, dicarboxylic acids and hydroxycarboxylic acids.
- 6. (Previously Presented) Copolymer according to claim 1, wherein prepolymer

  (A) comprises reaction products of cyclic monomers and/or non-cyclic monomers.

Application Serial No. 10/521,126 Amendment in Response to December 4, 2007 Election Requirement

- 7. (Original) Copolymer according to claim 6, wherein said cyclic monomers are selected from glycolide, lactide (L, D or L/D), ε-caprolactone, δ-valerolactone trimethylene carbonate, tetramethylenecarbonate, 1, 5-dioxepane-2-one, 1, 4-dioxane-2-one (*para*-dioxanone) and/or cyclic anhydrides such as oxepane-2, 7-dione.
- 8. (Previously Presented) Copolymer according to claim 5, wherein said non-cyclic monomers are selected from succinic acid, glutaric acid, adipic acid, sebacic acid, lactic acid, glycolic acid, hydroxybutyric acid, ethylene glycol, diethyleneglycol, 1, 4-butanediol and/or 1, 6-hexanediol.
- 9. (Previously Presented) Copolymer according to claim 2, wherein said polyethers are selected from PEG (polyethylene glycol), PEG-PPG (polypropylene glycol), PTMG (polytetramethyleneether glycol) and combinations thereof.
- 10. (Previously Presented) Copolymer, according to claim 1, in particular a copolymer having a random monomer distribution, wherein prepolymer (A) is prepared by a ring-opening polymerisation initiated by a diol or di-acid compound.
- 11. (Original) Copolymer according to claim 9, wherein PEG is an initiator with a molecular weight of 150-4000, preferably of 150-2000, more preferably of 300-1000.
- 12. (Previously Presented) Copolymer according to claim 1, wherein prepolymer (B) is prepared by a ring-opening polymerisation initiated by a diol or di-acid compound.

Application Serial No. 10/521,126 Amendment in Response to December 4, 2007 Election Requirement

- 13. (Previously Presented) Copolymer according to claim 1, wherein prepolymer (B) contains a crystallisable amount of ε-caprolactone, δ-valerolactone, para-dioxanone, polyhydroxyalkanoate, aliphatic polyanhydride.
- 14. (Original) Copolymer according to claim 13, wherein pre-polymer (B) is poly-ε- caprolactone.
- 15. (Original) Copolymer according to claim 14, wherein pre-polymer (B) has a Mn of larger than 1000, preferably larger than 2000, more preferably larger than 3000.
- 16. (Previously Presented) Copolymer according to claim 14 wherein the content of prepolymer (B) is 10-90 wt.% preferably 30-50 wt.%.
- 17. (Previously Presented) Copolymer according to claim 1, having an intrinsic viscosity of at least 0.1 dl/g, and preferably between 1-4 dl/g.
- 18. (Cancelled) Process for preparing a copolymer according to claim 1, comprising a chain extension reaction of prepolymer (A) and prepolymer (B) in the presence of a suitable aliphatic chain extender, whereby a randomly segmented multi-block copolymer is obtained.
- 19. (Cancelled) Process according to claim 18, wherein said chain extender is a difunctional aliphatic molecule.

- 20. (Cancelled) Process according to claim 19, wherein said difunctional aliphatic molecule is a diisocyanate, preferably butanediisocyanate.
- 21. (Cancelled) Process for preparing a copolymer according to claim 1, comprising a coupling reaction, wherein pre-polymers A and B are both diol or di-acid terminated and the chain-extender is di-carboxylic acid or diol terminated, respectively, using a coupling agent.
- 22. (Cancelled) Process according to claim 21, wherein the coupling agent is dicyclohexyl carbodiimide (DCC).
- 23. (Cancelled) Process for preparing a copolymer according to claim 1, comprising a coupling reaction, wherein a BAB-prepolymer is made by reacting a prepolymer (A) with monomers which form prepolymer (B), thus obtaining a BAB-tri-block prepolymer, which is subsequently chain-extended using a multifunctional chain-extender.
- 24. (Cancelled) Process for preparing a copolymer according to claim 1, comprising a coupling reaction, wherein a ABA-prepolymer is made by reacting a prepolymer (B) with monomers that form prepolymer (A), thus obtaining an ABA-tri-block prepolymer, which is subsequently chain-extended using a multifunctional chain-extender.
- 25. (Cancelled) Process according to claim 18, wherein said chain-extender is selected from diisocyanate (preferably butanediisocyanate), di-carboxylic acid or diol, optionally in the presence of a coupling agent.

- 26. (Cancelled) Use of a copolymer according to claim 1.
- 27. (Currently Amended) An Sponge, implant, nerve guide, meniscus prosthesis, film, foil, sheet, drug eluting coatings, membrane, plug, coating or micro-spheres comprising a copolymer according to claim 1.
  - 28. (Cancelled) Sponge according to claim 24 having a porosity of 50-99%.
  - 29. (Cancelled) Use of a copolymer obtainable by the process of claim 18.
- 30. (Cancelled) Sponge, implant, nerve guide, meniscus prosthesis, film, foil, sheet, drug eluting coatings, membrane, plug, coating or micro-spheres comprising a copolymer obtainable by the process of claim 18.